

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Knopp

Application No.: 10/020,068

Filed: 12/14/2001

Title: Phase Compensated Distributed Bragg Reflector

Attorney Docket No.: CORE- 120-370

Nortel Ref: 13921CK

Group Art Unit: 2828

Examiner: Nguyen

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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SEP 28 2004

RESPONSE UNDER 37 CFR 1.111

Dear Sir:

In response to the Office Action of June 28, 2004, entry of this response is respectfully requested.

REMARKS

Claims 1-13 are pending in this application. Claims 1-13 were rejected under 35 U.S.C. §102(e) as being anticipated by Hwang. Reconsideration and further examination is respectfully requested.

The claimed invention distinguishes Hwang because the phase compensated reflector reflects pump light at a proper phase relative to the lasing light. As described in the specification at page 6, the wavelength of the pump light  $\lambda_p$  and the wavelength of lasing light  $\lambda_l$  may differ. As described on page 8 of the specification, the reflector helps provide high reflectance at both the pump wavelength and the lasing wavelength. In contrast, Hwang teaches that the phase-matching